

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 62-262710

(43)Date of publication of application : 14.11.1987

(51)Int.Cl.

B01D 13/01

G21C 19/30

G21F 9/06

(21)Application number : 61-106370

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(22)Date of filing : 09.05.1986

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(54) HOLLOW YARN MEMBRANE FILTER

(57)Abstract:

PURPOSE: To prolong the service life of a hollow yarn membrane module by providing liq. level detecting equipment for detecting the level of backwashing water, optionally setting the level of backwashing water on the basis of the reading to enable a partial backwashing operation, and effectively backwashing the hollow yarn membrane module.

CONSTITUTION: A level gage 20 for detecting the level of backwashing water to be set in the range from the upper end to the lower end of a hollow yarn membrane module structure in a filter chamber 3 is provided. The filter chamber 3 is firstly filled with raw liq. as the backwashing water in the backwashing stage, compressed air is supplied to a treated liq. outlet nozzle

12 and an air inlet nozzle 17 to generate backwashing bubbles from the small holes on the lower surface of an air blowoff pipe 13 provided at the bottom of the filter chamber 3, and the deposit on the surface of the hollow yarn membrane 6 is removed. Then the water level in the filter chamber 3 is set in the region where the deposit remains in remarkably large quantities in accordance with the reading of the level gage 20, the hollow yarn membrane in the vicinity of the surface of the backwashing water is violently vibrated by the bubbles from the air blowoff pipe 13, and the deposit remaining at the part is predominantly stripped off.

